EPI GRAM December, 2019

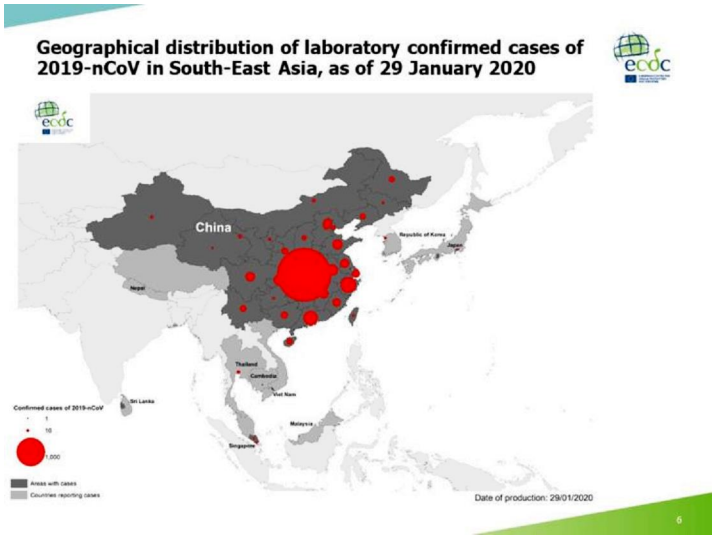
A Monthly Publication of the Stark Public Health Infrastructure Coalition

EPI Gram *is a monthly publication of the Stark County Public Health Infrastructure Coalition. It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for Stark County, Ohio. Some reportable conditions may be under investigation and, at any given time, data may fluctuate from month to month for a specific category.* ***If you have any questions please contact Avinash Joseph at 330.493.9914 or josepha@starkhealth.org, or Amanda Archer at 330.489.3327 or aarcher@cantonhealth.org.***

Public Health
Prevent. Promote. Protect.

Monthly Highlight: 2019 novel coronavirus (nCoV) outbreak in Wuhan, China

At the end of 2019, public health officials at the World Health Organization (WHO) were notified of an outbreak of pneumonia of unknown etiology occurring in Wuhan City, Hubei Province of China. In the following weeks it was revealed that many of the cases had a history of exposure to an open air seafood and exotic animal market in the city. Eventually, the pneumonia outbreak was linked to a novel coronavirus (nCoV), similar to the zoonotic coronaviruses that caused the severe acute respiratory syndrome (SARS) outbreak of 2003 and the Middle East Respiratory Syndrome (MERS) outbreak of 2012. The 2019 nCoV presents with influenza like symptoms of fever, cough, and shortness of breath, occasionally leading to pneumonia or death.



As of 1/29/2020, there have been over 6,000 confirmed cases and 120 deaths associated with this outbreak. The vast majority of these cases have occurred in the Hubei Province of China, but there have been cases reported in all other provinces and multiple other countries, including Vietnam, Japan, Singapore, Australia, France, and the United States. There have only been 5 cases reported in the U.S. thus far (all associated with travel to the province), but that number is expected to rise in coming weeks. Federal, state, and local public health officials have ramped up surveillance of suspected patients under investigation (PUI); to be considered a PUI an individual must have both a clinically compatible presentation of symptoms (fever and lower respiratory symptoms such as cough or shortness of breath) along with travel to Wuhan City in the 14 days prior to symptom onset, or close contact with a case of 2019 nCoV. It should be reiterated that the risk of getting the virus in the United States is still extremely low. In comparison to the 5 confirmed cases of nCoV reported in the U.S. thus far, there have been approximately 140,000 hospitalizations and 8,200 deaths due to influenza this season. While caution should be exercised in regards to exposure to nCoV, you are much more likely to contract the flu than any other respiratory virus of significance.

Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	December 2019				December 2018			
	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category
Pollen Count	Data collected seasonally and currently not available				Data collected seasonally and currently not available			
Mold Count								
Air Quality Index	73	7	39	5 (Moderate)	89	15	45	1 (Moderate)

**See the following websites for updated Air Quality Index and mold index terminology and color coding: http://www.airnow.gov/index.cfm?action=aqibasics.aqi https://pollen.aaaai.org/nab/index.cfm?p=reading_charts. Data source for this table is the Air Quality Division of the Canton City Health Department.

Table 2 Select Vital Statistics for Stark County

	DEC 2019	YTD 2019	2018
Live Births	328	4091	4052*
Births to Teens	25	266	230*
Deaths	377	4258	4230*

* Birth and death data is preliminary

Table 3 Stark County Crude Birth Rate and Death Rates

	2014	2015	2016	2017	2018*
Birth	11.3	11.2	11.3	10.7	10.9
Death	11.4	11.6	11.7	11.9	11.4

*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population. 2018 data is preliminary.

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County, OH (Provisional Data)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	DEC	YTD	DEC	YTD	DEC	YTD	DEC	YTD	DEC	YTD
Babesiosis	0	0	0	0	0	0	1	1	1	1
Campylobacteriosis	0	2	0	16	1	7	5	65	6	90
Chlamydia infection	11	145	42	812	13	187	43	695	109	1839
CP-CRE	1	2	0	5	0	4	1	11	2	22
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	2	0	2
Cryptosporidiosis	0	4	0	4	0	1	1	34	1	43
E. coli, Shiga Toxin-Producing	0	0	0	3	0	3	0	8	0	14
Giardiasis	0	0	0	5	0	2	0	16	0	23
Gonococcal infection	0	27	21	314	2	50	12	160	35	551
Haemophilus influenzae (invasive disease)	0	0	0	2	0	0	0	4	0	6
Hepatitis A	1	3	0	3	1	4	2	12	4	22
Hepatitis B (including delta) - acute	0	2	0	3	0	2	0	1	0	8
Hepatitis B (including delta) - chronic	0	4	1	19	1	9	2	37	4	69
Hepatitis C - acute	0	0	1	2	0	1	0	0	1	3
Hepatitis C - chronic	4	33	4	106	2	44	12	140	22	323
Hepatitis E	0	0	0	0	0	0	0	0	0	0
Influenza-associated hospitalization	2	18	2	119	4	36	18	269	26	442
Legionellosis - Legionnaires' Disease	0	2	0	7	0	4	1	10	1	23
Listeriosis	0	0	0	0	0	0	0	2	0	2
Lyme Disease	0	1	0	2	0	2	3	46	3	51
Measles	0	0	0	0	0	0	0	1	0	1
Meningitis - aseptic/viral	0	4	2	6	0	3	0	5	2	18
Meningitis–bacterial (Not N. meningitidis)	0	0	0	0	0	0	0	1	0	1
Mumps	0	0	0	0	0	0	0	3	0	3
Pertussis	0	2	0	11	0	5	3	24	3	42
Salmonellosis	0	2	0	4	0	7	2	32	2	45
Shigellosis	0	0	0	3	0	0	1	21	1	24
Streptococcal - Group A -invasive	0	0	0	2	1	2	0	11	1	15
Streptococcal - Group B - in newborn	0	0	0	0	0	0	0	1	0	1
Streptococcus pneumoniae - inv antibiotic resistance unknown or non-resistant	1	2	1	7	0	0	2	15	4	24
Streptococcus pneumoniae – inv antibiotic resistant/intermediate	0	3	0	2	0	2	1	4	1	11
Syphilis, Total	0	2	1	16	1	3	0	13	2	34
➢ Syphilis, Primary, Secondary & Early Latent	0	2	1	9	1	2	0	12	2	25
Tuberculosis	0	0	0	1	0	0	1	1	1	2
Varicella	0	0	0	8	0	2	6	16	6	26
Vibriosis (not cholera)	0	0	0	0	0	1	0	2	0	3
Yersiniosis	0	0	0	1	0	0	0	5	0	6
Total	22	259	74	1493	27	380	119	1688	242	3820

Alliance City Health Department
cityofalliance.com/health

Canton City Public Health
cantonhealth.org

Massillon City Health Department
massillonohio.com/health

Stark County Health Department
starkhealth.org

Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)	DEC-19	DEC-18	YTD 2019	YTD 2018	All of 2018	5 Yr Annual Average	Rate
Amebiasis	0	0	0	0	0	0.4	0.107
Anaplasmosis	0	0	0	2	2	0.6	0.161
Babesiosis	1	0	1	2	2	0.8	0.214
Brucellosis	0	0	0	0	0	0.2	0.054
Campylobacteriosis	6	2	90	85	85	77.6	20.761
Chlamydia	109	124	1839	1713	1713	1720.0	460.169
CP-CRE	2	7	22	27	27	24.0	6.421
Coccidioidomycosis	0	0	0	0	0	0.4	0.107
Creutzfeldt-Jakob Disease	0	0	2	1	1	1.2	0.321
Cryptosporidiosis	1	0	43	33	33	33.8	9.043
Cyclosporiasis	0	0	4	8	8	3.0	0.803
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	0	1	14	17	17	14.0	3.746
Giardiasis	0	4	23	23	23	21.8	5.832
Gonorrhea	35	62	551	643	643	580.2	155.227
Haemophilus influenzae , Invasive	0	1	6	4	4	6.4	1.712
Hemolytic Uremic Syndrome (HUS)	0	0	1	0	0	0.2	0.054
Hepatitis A	4	1	22	11	11	7.6	2.033
Hepatitis B, Perinatal	0	0	0	1	1	1.8	0.482
Hepatitis B, Acute	0	1	8	11	11	6.4	1.712
Hepatitis B, Chronic	4	10	69	85	85	57.6	15.410
Hepatitis C, Acute	1	0	3	5	5	6.2	1.659
Hepatitis C, Chronic	22	18	323	313	313	313.0	83.740
Hepatitis C-Perinatal Infection	0	1	2	4	4	4.0	1.070
Hepatitis E	0	0	0	0	0	0.2	0.054
Influenza-associated hospitalization	26	10	442	595	595	379.0	101.398
LaCrosse virus disease	0	0	0	4	4	1.0	0.268
Legionellosis	1	1	23	34	34	18.0	4.816
Listeriosis	0	0	2	1	1	1.0	0.268
Lyme Disease	3	2	51	38	38	24.0	6.421
Malaria	0	0	0	0	0	0.4	0.107
Measles (indigenous to Ohio)	0	0	1	0	0	2.0	0.535
Meningitis, Aseptic	2	3	18	46	46	34.6	9.257
Meningitis, Other Bacterial	0	0	1	4	4	3.4	0.910
Meningococcal Disease	0	0	0	0	0	1.0	0.268
Mumps	0	0	3	2	2	3.2	0.856
Pertussis	3	10	42	54	54	50.4	13.484
Q fever, chronic	0	0	0	0	0	0.2	0.054
Salmonellosis	2	3	45	61	61	47.8	12.788
Shigellosis	1	0	24	25	25	26.2	7.010
Spotted Fever Rickettsiosis	0	0	1	5	5	2.2	0.589
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	0	0	0.2	0.054
Streptococcal Dis, Group A, Invasive	1	1	15	25	25	15.2	4.067
Streptococcal Dis, Group B, in Newborn	0	0	1	2	2	1.6	0.428
Streptococcal Toxic Shock Syndrome	0	0	0	0	0	0.8	0.214
Streptococcus pneumoniae – inv. antibiotic resistance unknown or non-resistant	4	5	24	29	29	30.6	8.187
Streptococcus pneumo – inv. antibiotic resistant/intermediate	1	1	11	10	10	13.4	3.585
Syphilis, Total	2	2	34	33	33	19.4	5.190
Syphilis, Primary, Secondary and Early Latent	2	0	25	19	19	11.8	3.157
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.2	0.054
Tuberculosis	1	2	2	5	5	2.4	0.642
Varicella	6	2	26	16	16	24.2	6.474
Vibriosis - other (not cholera)	0	0	3	1	1	2.2	0.589
Vibrio parahaemolyticus infection	0	0	0	0	0	0.0	0.000
West Nile Virus	0	0	0	8	8	2.2	0.589
Yersiniosis	0	0	6	3	3	6.4	1.712
Zika virus infection	0	0	0	0	0	1.0	0.268

Source: Ohio Disease Reporting System, downloaded 9/2019. Rates are per 100K population and based on 5 yr average incidence '14 – '18.